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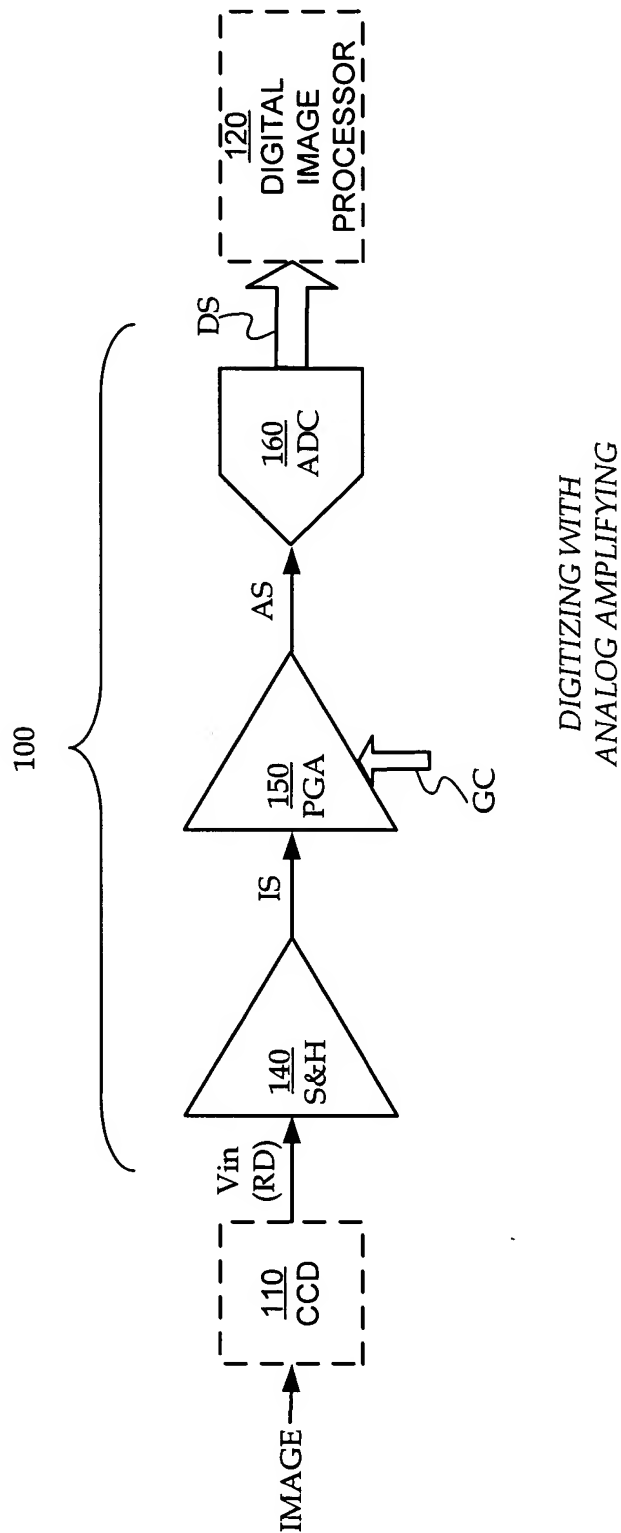


FIGURE 1

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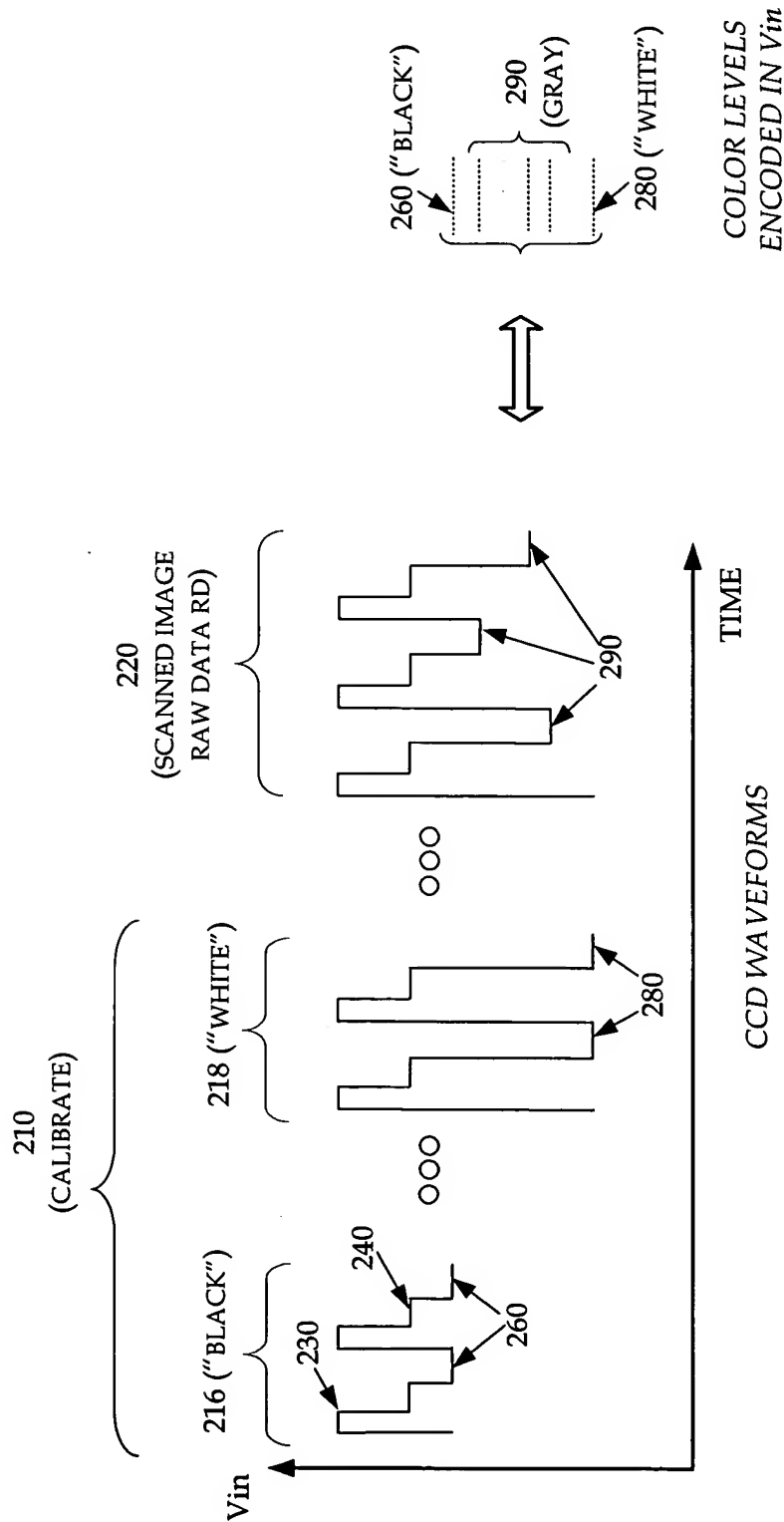


FIGURE 2A

FIGURE 2B

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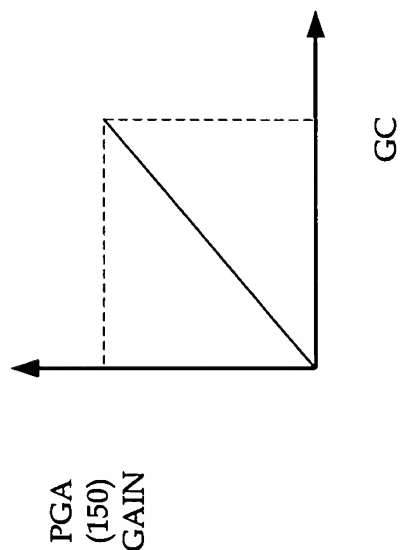


FIGURE 3

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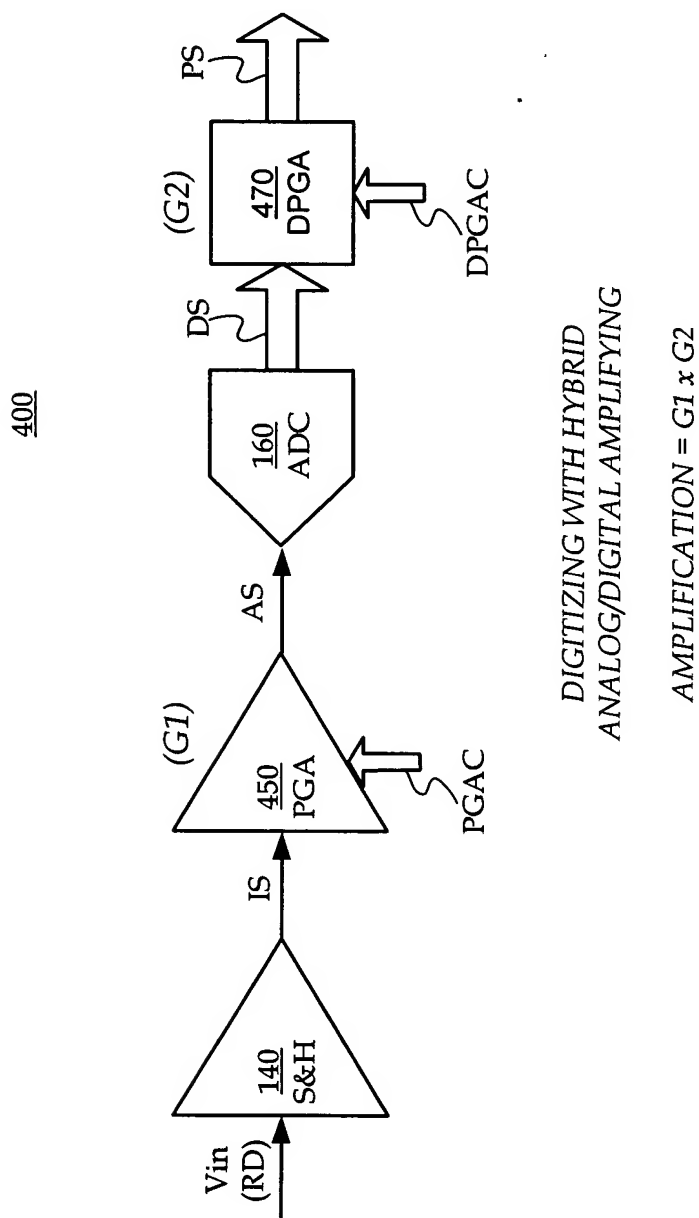


FIGURE 4

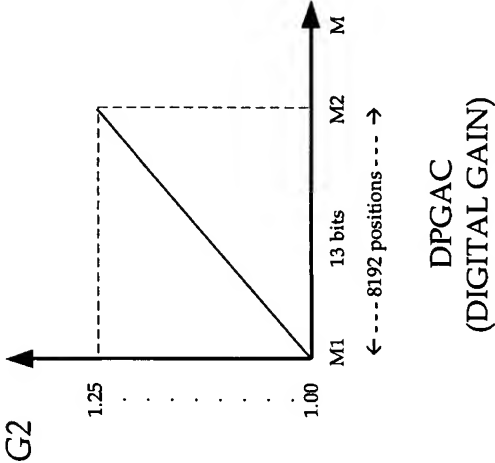


FIGURE 5B

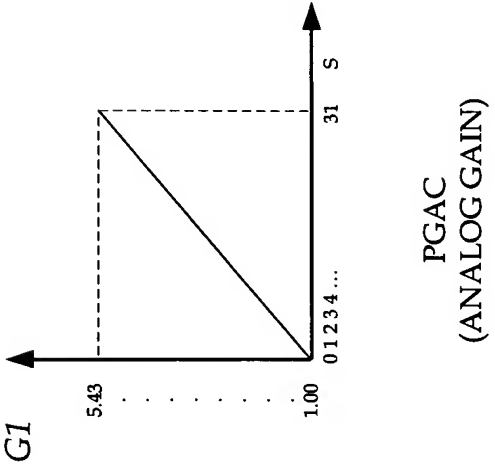


FIGURE 5A

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<u>s</u>	<u>Gain</u>	<u>Vin(min)</u>	<u>Vin(max)</u>	<u>Gain ratio</u> <u>prev. step</u>
	$G(s) = 1+s*N$ $N = 7/31$	$V_n = 0.8/G$	$V_m = 1/G$	$R = G(s)/G(s-1)$
0	1	0.8	1	n/a
1	1.225806452	0.652631579	0.815789474	1.225806452
2	1.451612903	0.551111111	0.688888889	1.184210526
3	1.677419355	0.476923077	0.596153846	1.155555556
4	1.903225806	0.420338983	0.525423729	1.134615385
5	2.129032258	0.375757576	0.46969697	1.118644068
6	2.35483871	0.339726027	0.424657534	1.106060606
7	2.580645161	0.31	0.3875	1.095890411
8	2.806451613	0.285057471	0.356321839	1.0875
9	3.032258065	0.263829787	0.329787234	1.08045977
10	3.258064516	0.245544554	0.306930693	1.074468085
11	3.483870968	0.22962963	0.287037037	1.069306931
12	3.709677419	0.215652174	0.269565217	1.064814815
13	3.935483871	0.203278689	0.254098361	1.060869565
14	4.161290323	0.192248062	0.240310078	1.057377049
15	4.387096774	0.182352941	0.227941176	1.054263566
16	4.612903226	0.173426573	0.216783217	1.051470588
17	4.838709677	0.165333333	0.206666667	1.048951049
18	5.064516129	0.157961783	0.197452229	1.046666667
19	5.290322581	0.151219512	0.18902439	1.044585987
20	5.516129032	0.14502924	0.18128655	1.042682927
21	5.741935484	0.139325843	0.174157303	1.040935673
22	5.967741935	0.134054054	0.167567568	1.039325843
23	6.193548387	0.129166667	0.161458333	1.037837838
24	6.419354839	0.124623116	0.155778894	1.036458333
25	6.64516129	0.12038835	0.150485437	1.035175879
26	6.870967742	0.116431925	0.145539906	1.033980583
27	7.096774194	0.112727273	0.140909091	1.03286385
28	7.322580645	0.109251101	0.136563877	1.031818182
29	7.548387097	0.105982906	0.132478632	1.030837004
30	7.774193548	0.102904564	0.128630705	1.02991453
31	8	0.1	0.125	1.029045643

FIGURE 6

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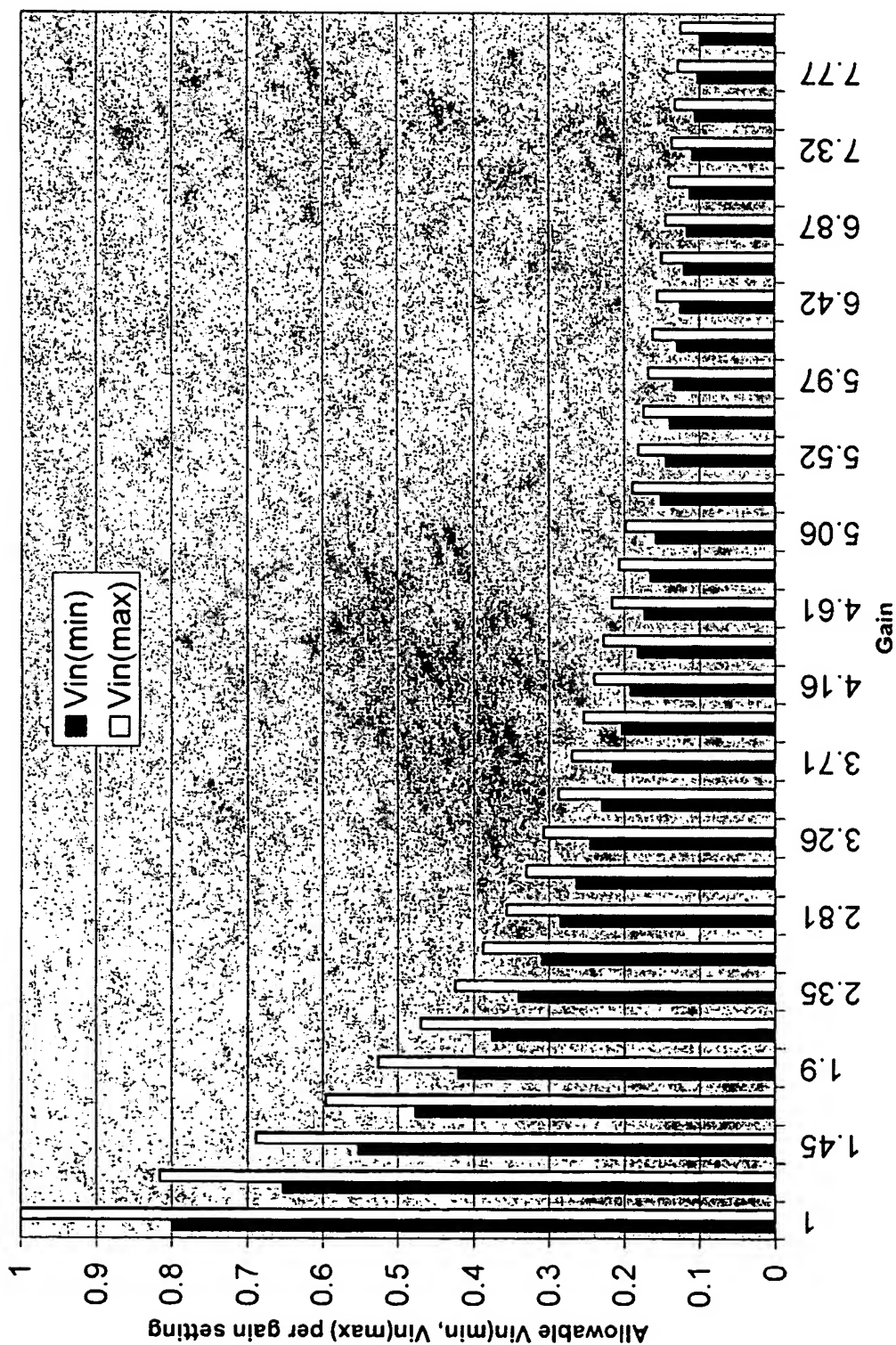
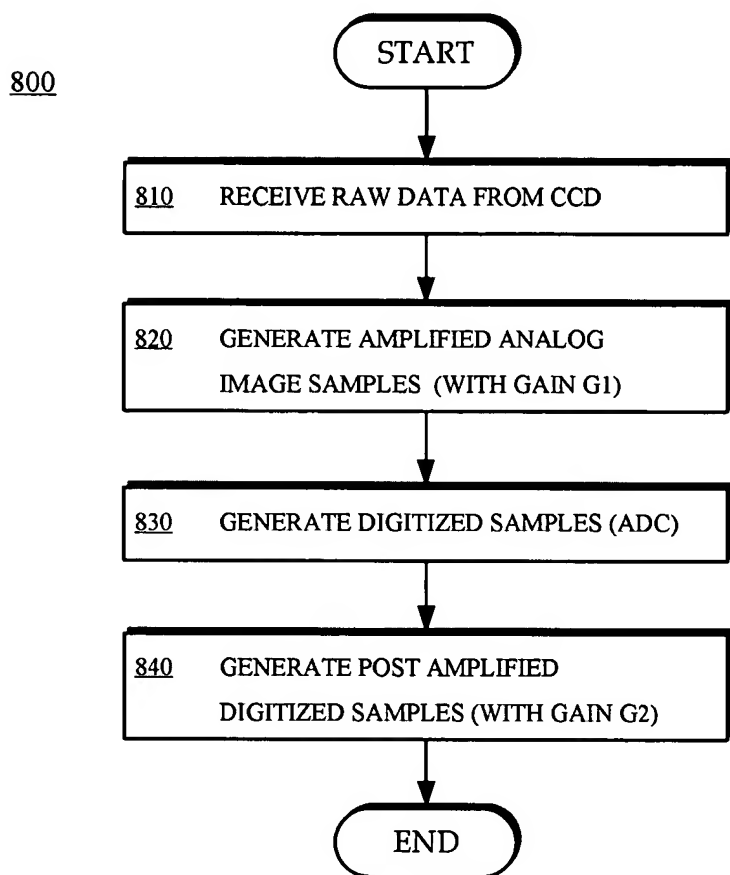


FIGURE 7

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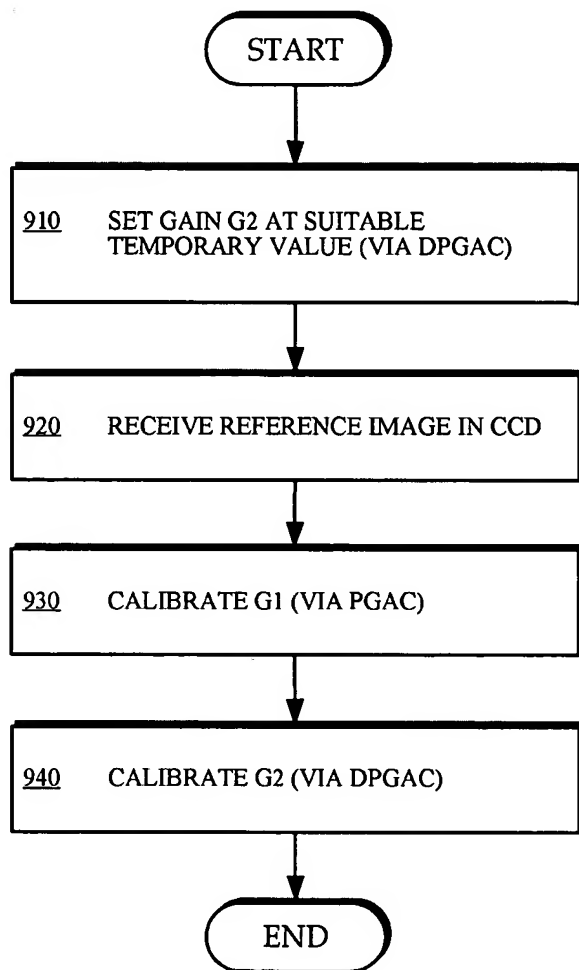
*DIGITIZE  
& AMPLIFY*

FIGURE 8



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900



CALIBRATE

FIGURE 9